

Title (en)  
THREADED JOINT FOR STEEL PIPE

Title (de)  
SCHRAUBVERBINDUNG FÜR STAHLROHRE

Title (fr)  
RACCORD FILETÉ POUR TUYAU EN ACIER

Publication  
**EP 3604881 A4 20200415 (EN)**

Application  
**EP 18774281 A 20180302**

Priority  
• JP 2017070649 A 20170331  
• JP 2018008155 W 20180302

Abstract (en)  
[origin: EP3604881A1] A threaded connection for steel pipe is provided that prevents cross-threading and provides good compression load resistance. A threaded connection (10) includes a pin (30) and a box (40). The male thread stabbing flank (34) of the pin (30) includes two male thread stabbing flank portions (341) and (342). The male thread stabbing flank portion (341) is located farther from the pipe axis (X) of the steel pipe (20) and has a stabbing flank angle ( $\alpha_1$ ) of -10 to 15 degrees. The male thread stabbing flank portion (342) is located closer to the pipe axis (X) and has a stabbing flank angle ( $\alpha_2$ ) of 20 to 60 degrees. The female thread stabbing flank (44) of the box (40) includes two female thread stabbing flank portions (441) and (442). The female thread stabbing flank portion (441) is located farther from the pipe axis (X) and has a stabbing flank angle ( $\alpha_1$ ) equal to the stabbing flank angle ( $\alpha_1$ ) of the male thread stabbing flank portion (341). The female thread stabbing flank portion (442) is located closer to the pipe axis (X) and has a stabbing flank angle ( $\alpha_2$ ) equal to the stabbing flank angle ( $\alpha_2$ ) of the male thread stabbing flank portion (342).

IPC 8 full level  
**F16L 15/04** (2006.01); **E21B 17/042** (2006.01); **F16L 15/00** (2006.01); **F16L 15/06** (2006.01)

CPC (source: EA EP US)  
**E21B 17/042** (2013.01 - EP); **F16L 15/004** (2013.01 - EP); **F16L 15/04** (2013.01 - EA US); **F16L 15/06** (2013.01 - EA EP US);  
**E21B 17/042** (2013.01 - EA US)

Citation (search report)  
• [XYI] US 2016312931 A1 20161027 - MARTIN PIERRE [FR], et al  
• [Y] FR 2800150 A1 20010427 - VALLOUREC MANNESMANN OIL & GAS [FR]  
• [A] US 2011101684 A1 20110505 - LENG KUO-TSUNG [US]  
• [A] EP 0147358 A2 19850703 - TUBULAR CORP OF AMERICA [US]  
• [A] US 2010078936 A1 20100401 - NAKAMURA KEIICHI [JP], et al  
• See also references of WO 2018180218A1

Cited by  
CN111306376A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3604881 A1 20200205; EP 3604881 A4 20200415; EP 3604881 B1 20220504**; AR 111444 A1 20190717; AU 2018246094 A1 20190912; AU 2018246094 B2 20210204; BR 112019017165 A2 20200414; BR 112019017165 B1 20230124; CA 3055505 A1 20181004; CA 3055505 C 20211214; CN 110476000 A 20191119; CN 110476000 B 20210824; EA 038092 B1 20210705; EA 201992035 A1 20200228; JP 6795084 B2 20201202; JP WO2018180218 A1 20190627; MX 2019010415 A 20191015; MY 201522 A 20240227; PL 3604881 T3 20220822; UA 124780 C2 20211117; US 11067205 B2 20210720; US 2020025315 A1 20200123; WO 2018180218 A1 20181004

DOCDB simple family (application)  
**EP 18774281 A 20180302**; AR P180100725 A 20180327; AU 2018246094 A 20180302; BR 112019017165 A 20180302; CA 3055505 A 20180302; CN 201880022821 A 20180302; EA 201992035 A 20180302; JP 2018008155 W 20180302; JP 2019509070 A 20180302; MX 2019010415 A 20180302; MY PI2019005065 A 20180302; PL 18774281 T 20180302; UA A201910009 A 20180302; US 201816495420 A 20180302